

ABSTRACT OF THE DISCLOSURE

A channelized sorbent material comprises porous sorbent particles characterized by an average pore diameter. Each sorbent particle has at least one interior channel of an average transverse dimension (i.e. transverse diameter) that is at least ten times larger than the average pore diameter of the porous sorbent particle. The interior channel may constitute a single cylindrical through-bore in the sorbent particle, or alternatively, an array of intersecting or non-intersecting channels. The porous sorbent particles preferably comprise bead activated carbon particles. Such channelized sorbent material is particularly useful as sorbent media in an adsorption-desorption apparatus for storage and dispensing of a sorbable fluid.